

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0008	Overall LMA Rating	Total LMA Miles							
Knights Landing Ridge Drainage District	A	12.39							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Encroachments	0.01		0.01	0.08%	1.16	0.01			
Erosion / Bank Caving	0.03		0.03	0.24%					
<i>Supplemental</i>									
2017 USACE Erosion Survey	0.28		0.28	2.26%					
DRAFT DWR UCIP Field Study					0.17	0.03			
DRAFT DWR UCIP LMA Responsibility									
<i>LMA Totals:</i>	0.32	0.00	0.32	2.58%	1.33	0.04	0.00	0.00	
Unit No. 01 Knights Landing Ridge Cut RB	Overall Unit Rating	Total Unit Miles							
NA0008	A	6.36							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Encroachments					0.95				
Erosion / Bank Caving	0.03		0.03	0.47%					
<i>Supplemental</i>									
2017 USACE Erosion Survey	0.15		0.15	2.36%					
DRAFT DWR UCIP Field Study					0.09	0.02			
DRAFT DWR UCIP LMA Responsibility									
<i>Unit Totals:</i>	0.18	0.00	0.18	2.83%	1.04	0.02	0.00	0.00	
Unit No. 02 Knights Landing Ridge Cut LB	Overall Unit Rating	Total Unit Miles							
NA0008	A	6.03							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Encroachments	0.01		0.01	0.17%	0.21	0.01			
<i>Supplemental</i>									
2017 USACE Erosion Survey	0.13		0.13	2.16%					
DRAFT DWR UCIP Field Study					0.08	0.01			
DRAFT DWR UCIP LMA Responsibility									
<i>Unit Totals:</i>	0.14	0.00	0.14	2.32%	0.29	0.02	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Fall 2019 Levee Inspection Results****Knights Landing Ridge Drainage District**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Knights Landing Ridge Drainage District

Waterway			Bank	Unit Miles
Unit No. 01 Knights Landing Ridge Cut			Right	6.36
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/4/2019 - 4/4/2019		10/1/2019 - 10/1/2019	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By	Gary Marler RD0108		Gary Marler RD0108	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0008_01_s_2017_3				
Comment Code					
Inspector Comment					
District has levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0008_01_s_2013_8				
Comment Code					
Inspector Comment					
District maintains a stockpile of flood fight response material.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0008_01_s_2013_9				
Comment Code					
Inspector Comment					
District has written response plan and regular flood fight training.					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.25	Rating **	M	Issue No.	32
LM End	0.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.722222°	38.722222°
				-121.666357°	-121.666357°
DWR ID	19360				
Comment Code					
Inspector Comment					
DS_ID:19360 FS_ID:55381 EP_NO: 9302 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Concrete distribution box on LS toe has been removed. Slide gate with its metal stand debris should be removed from the channel as well. (O.Yakimov - DWR UCIP)12/07/2018 Need updated photos to show proper pipe abandonment. Update Part VI, 1. Pipe Section to remove part c and e. If crossing was abandoned properly crossing will need to be removed from the LMA responsibility list. (O. Magana - DWR UCIP)05/16/2016 Pipe has been grouted in place under permit 18987, 2015. (T. Hatch - DWR UCIP)04/05/2013 Pipe completely rusted through on LS slope of levee at toe/headwall of concrete distribution box. Pipe needs replacement or proper abandonment. Pipe not visible at outlet. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 27 feet below the crown. Slide gate on the waterside (WS) end. 12-foot by 6-foot concrete box on the landside (LS) end. (36-inch pipe [HLM 1.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9302, 1974 - Barbara Lowe Elliott; 36-inch pipe abandoned by removing ends and pumping pipe full of concrete under Permit No. 18987, 2016 - Knaggs Ranch, LLC, care of John Brennan). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 0+30)]. FS Date: 10/23/2019 2:41:37 PM					

Photo 1 of 3 : UCIP_FA_2019_55381_81599.jpg



View of WS looking from crown

LM Start	0.25	Rating **	M	Issue No.	32 (cont)
LM End	0.25	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_55381_81600.jpg



Concrete distribution box on LS toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.25	Rating **	M	Issue No.	32 (cont)	
LM End	0.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.722222°	38.722222°	
				-121.666357°	-121.666357°	
DWR ID	19360					
Comment Code						
Inspector Comment						
DS_ID:19360 FS_ID:55381 EP_NO: 9302 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Concrete distribution box on LS toe has been removed. Slide gate with its metal stand debris should be removed from the channel as well. (O.Yakimov - DWR UCIP)12/07/2018 Need updated photos to show proper pipe abandonment. Update Part VI, 1. Pipe Section to remove part c and e. If crossing was abandoned properly crossing will need to be removed from the LMA responsibility list. (O. Magana - DWR UCIP)05/16/2016 Pipe has been grouted in place under permit 18987, 2015. (T. Hatch - DWR UCIP)04/05/2013 Pipe completely rusted through on LS slope of levee at toe/headwall of concrete distribution box. Pipe needs replacement or proper abandonment. Pipe not visible at outlet. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 27 feet below the crown. Slide gate on the waterside (WS) end. 12-foot by 6-foot concrete box on the landside (LS) end. (36-inch pipe [HLM 1.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9302, 1974 - Barbara Lowe Elliott; 36-inch pipe abandoned by removing ends and pumping pipe full of concrete under Permit No. 18987, 2016 - Knaggs Ranch, LLC, care of John Brennan). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 0+30)]. FS Date: 10/23/2019 2:41:37 PM						

Photo 3 of 3 : UCIP_FA_2019_55381_81601.jpg



Slide gate on metal stand on WS toe needs removal

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.87	Rating **	U	Issue No.	33
LM End	0.87	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.727869 °	38.727869 °
				-121.674875 °	-121.674875 °
DWR ID	19361				

Comment Code

Inspector Comment

DS_ID:19361
 FS_ID:55685
 EP_NO: 9302
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 10/08/2019 Record has been updated from Non-Urgent to Urgent, excavation into WS slope and around pipe noted in USACE PI and UCIP 2013 inspection. Unable to confirm in 2019 whether excavation is still present on the WS slope due to dense vegetation on the WS. (O.Yakimov - DWR UCIP)
 04/05/2013 Pipe exposed on WS slope in trench may need to be backfilled to prevent erosion under pipe. (W. Wylie - DWR UCIP)
 FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 8.8 feet below the crown. Pump on a steel pile structure at the waterside (WS) toe. Siphon breaker in a 12-inch steel riser on the landside (LS) slope. Possible butterfly valve at the LS toe. 36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No.9302, 1974 - Barbara Lowe Elliott. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 32+94)].
 FS Date: 10/8/2019

LM Start	0.87	Rating **	U	Issue No.	33 (cont)
LM End	0.87	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55685_82412.jpg



View of LS looking from levee crown

Photo 2 of 3 : UCIP_FA_2019_55685_82413.jpg



View of WS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.87	Rating **	U	Issue No.	33 (cont)	
LM End	0.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.727869 °	38.727869 °	
				-121.674875 °	-121.674875 °	
DWR ID	19361					
Comment Code						
Inspector Comment						
DS_ID:19361 FS_ID:55685 EP_NO: 9302 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Record has been updated from Non-Urgent to Urgent, excavation into WS slope and around pipe noted in USACE PI and UCIP 2013 inspection. Unable to confirm in 2019 whether excavation is still present on the WS slope due to dense vegetation on the WS. (O.Yakimov - DWR UCIP) 04/05/2013 Pipe exposed on WS slope in trench may need to be backfilled to prevent erosion under pipe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 8.8 feet below the crown. Pump on a steel pile structure at the waterside (WS) toe. Siphon breaker in a 12-inch steel riser on the landside (LS) slope. Possible butterfly valve at the LS toe. 36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No.9302, 1974 - Barbara Lowe Elliott). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 32+94)]. FS Date: 10/8/2019						

Photo 3 of 3 : UCIP_FA_2019_55685_82414.jpg



Pump on a pile platform in river channel

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.87	Rating **	M	Issue No.	34	
LM End	0.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.727869 °	38.727869 °	
				-121.674875 °	-121.674875 °	
DWR ID	22967					
Comment Code						
Inspector Comment						
DS_ID:22967						
FS_ID:55686						
EP_NO: 9302						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP)						
FIELD_STRUCT_DESC: 2.5-inch electrical conduit of an unknown material through the levee, 8.8 feet below the crown. Provides service for pump at the waterside (WS) toe. (Permit No. 9302, 1974 - Barbara Lowe Elliott). [Additional Reference(s): USACE Sacramento O&M Manual 127, June 1953].						
FS Date: 10/8/2019 3:10:34 PM						

LM Start	0.87	Rating **	M	Issue No.	34 (cont)
LM End	0.87	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2019_55686_82415.jpg



Meter and breakers at LS toe

Photo 2 of 2 : UCIP_FA_2019_55686_82416.jpg



Electric conduit runs parallel toirrigation pipe along WS slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	1.13	Rating **	M	Issue No.	26
LM End	1.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.730134 °	38.731873 °
				-121.678820 °	-121.680739 °
DWR ID	DWR_NA0008_01_f_2017_26				
Comment Code					
FE : Fence					
Inspector Comment					
A barbed wire fence is located on the landside slope.					

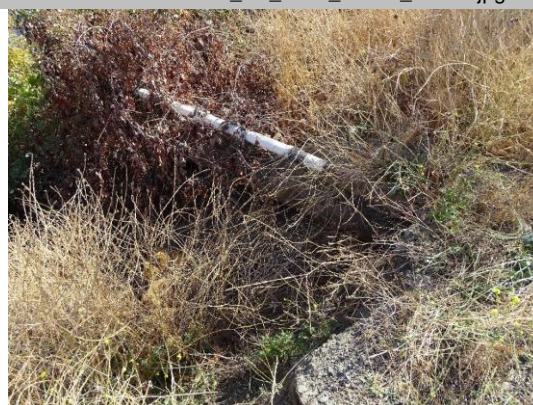
Photo 1 of 1 : FA_2019_NA0008_256_26_20190829_00008.jpg



View of fence on the landside slope. Fall 2017.

LM Start	1.15	Rating **	U	Issue No.	35
LM End	1.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.730275 °	38.730275 °
				-121.678975 °	-121.678975 °
DWR ID	19362				
Comment Code					
Inspector Comment					
DS_ID:19362 FS_ID:55687 EP_NO: 9305 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/08/2019 WS slope has been excavated to expose pipe. 4-inch PVC is sleeved through 6-inch steel pipe at this location. Concrete standpipe on LS not found. (O.Yakimov - DWR UCIP)Slope on WS shoulder appears to be eroding at pipes exit from levee. 36-inch conc riser on LS is filled with mud. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 5.8-feet below the crown. Pump at the waterward toe, pump motor on the waterward slope. Concrete headwall on the w/s slope. Concrete standpipe at the landward toe (Permit No. 9305-Bacchini) FS Date: 10/8/2019 4:06:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55687_82420.jpg



WS levee slope is excavated to expose pipes

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	1.15	Rating **	U	Issue No.	35 (cont)	
LM End	1.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.730275 °		38.730275 °
				-121.678975 °		-121.678975 °
DWR ID	19362					
Comment Code						
Inspector Comment						
DS_ID:19362 FS_ID:55687 EP_NO: 9305 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/08/2019 WS slope has been excavated to expose pipe. 4-inch PVC is sleeved through 6-inch steel pipe at this location. Concrete standpipe on LS not found. (O.Yakimov - DWR UCIP)Slope on WS shoulder appears to be eroding at pipes exit from levee. 36-inch conc riser on LS is filled with mud. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 5.8-feet below the crown. Pump at the waterward toe, pump motor on the waterward slope. Concrete headwall on the w/s slope. Concrete standpipe at the landward toe (Permit No. 9305-Bacchini) FS Date: 10/8/2019 4:06:00 PM						

Photo 2 of 3 : UCIP_FA_2019_55687_82417.jpg



Disconnected 5-inch steel pipe on WS levee shoulder

LM Start	1.15	Rating **	U	Issue No.	35 (cont)
LM End	1.15	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_55687_83351.jpg



12-inch and 6-inch pipes visible

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	1.59	Rating **	M	Issue No.	36	
LM End	1.59	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.735399 °	38.735399 °	
				-121.684058 °	-121.684058 °	
DWR ID	19363					
Comment Code						
Inspector Comment						
DS_ID:19363 FS_ID:55692 EP_NO: 939 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 No permit for sleeving 16-inch pipe found. Annular space between pipes not grouted. (O.Yakimov - DWR UCIP)04/05/2013 Space between 16-inch and 24-inch pipe should be grouted. There is no pump on stand at WS toe. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 5.9 feet below the crown. 16-inch steel pipe sleeved through this pipe. No visible control valves. Pump on a pile structure in the stream. Siphon breaker on the landside (LS) slope. Pipe discharges into a concrete irrigation ditch off the LS toe. (Permit No. 939, 1943 - W. K. Lowe). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 71+25)]. FS Date: 10/8/2019 8:04:40 AM						

LM Start	1.59	Rating **	M	Issue No.	36 (cont)
LM End	1.59	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55692_82433.jpg



View of WS looking from levee crown

Photo 2 of 3 : UCIP_FA_2019_55692_82434.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	1.59	Rating **	M	Issue No.	36 (cont)	
LM End	1.59	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.735399 °	38.735399 °	
				-121.684058 °	-121.684058 °	
DWR ID	19363					
Comment Code						
Inspector Comment						
DS_ID:19363 FS_ID:55692 EP_NO: 939 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 No permit for sleeving 16-inch pipe found. Annular space between pipes not grouted. (O.Yakimov - DWR UCIP)04/05/2013 Space between 16-inch and 24-inch pipe should be grouted. There is no pump on stand at WS toe. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 5.9 feet below the crown. 16-inch steel pipe sleeved through this pipe. No visible control valves. Pump on a pile structure in the stream. Siphon breaker on the landside (LS) slope. Pipe discharges into a concrete irrigation ditch off the LS toe. (Permit No. 939, 1943 - W. K. Lowe). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 71+25)]. FS Date: 10/8/2019 8:04:40 AM						

Photo 3 of 3 : UCIP_FA_2019_55692_82435.jpg



Siphon breaker and a cutout in 24-inch pipe at LS shoulder

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	37
LM End	2.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.747110 °	38.747110 °
				-121.694415 °	-121.694415 °
DWR ID	19364				

Comment Code

Inspector Comment

DS_ID:19364
FS_ID:55698
EP_NO: 9307
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/08/2019 Siphon breaker not found on LS slope. Pipe outlet not found on WS. Work under permit 9307-1 not started. (O.Yakimov - DWR UCIP)04/05/2013 Siphon breaker on LS buried or broken off and missing.
FIELD_STRUCT_DESC: 1 of 2: 14-inch steel drainage pipe through the levee, 5.4 feet below the crown. Pump house on a pile structure at the landside (LS) toe. Siphon breaker on the LS slope. Service pole and anchor at the LS toe. (14-inch pipe [HLM 2.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9307, 1974 - Azalene E. Lowe; a 12-foot section of an existing 14-inch pipe on LS replaced and name change under Permit No. 9307-1, 2016 - Ann Grube). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 123+25)].
FS Date: 10/8/2019 8:30:25 AM

LM Start	2.58	Rating **	M	Issue No.	37 (cont)
LM End	2.58	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_55698_82444.jpg



View of LS looking from levee crown

Photo 2 of 3 : UCIP_FA_2019_55698_82445.jpg



Pumping platform on pile structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	37 (cont)	
LM End	2.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.747110°	38.747110°	
				-121.694415°	-121.694415°	
DWR ID	19364					
Comment Code						
Inspector Comment						
DS_ID:19364 FS_ID:55698 EP_NO: 9307 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Siphon breaker not fornd on LS slope. Pipe outlet not forund on WS. Work under permit 9307-1 not started. (O.Yakimov - DWR UCIP)04/05/2013 Siphon breaker on LS burried or broken off and missing. FIELD_STRUCT_DESC: 1 of 2: 14-inch steel drainage pipe through the levee, 5.4 feet below the crown. Pump house on a pile structure at the landside (LS) toe. Siphon breaker on the LS slope. Service pole and anchor at the LS toe. (14-inch pipe [HLM 2.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9307, 1974 - Azalene E. Lowe; a 12-foot section of an existing 14-inch pipe on LS replaced and name change under Permit No. 9307-1, 2016 - Ann Grube). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 123+25)]. FS Date: 10/8/2019 8:30:25 AM						

Photo 3 of 3 : UCIP_FA_2019_55698_82446.jpg



Not found siphon breaker on LS slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	38	
LM End	2.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.747204 °	38.747204 °	
				-121.694440 °	-121.694440 °	
DWR ID	19391					
Comment Code						
Inspector Comment						
DS_ID:19391 FS_ID:55708 EP_NO: 9307 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Slide gate actuator is not accessible without use of equipment. (O.Yakimov - DWR UCIP)04/05/2013 Walkway to actuator slide gate is missing. No method of actuating slide gate. FIELD_STRUCT_DESC: 2 of 2: 48-inch by 48-inch reinforced concrete box drainage culvert through the levee, 23 feet below the crown. Walkway to slide gate on the waterside (WS) end. Concrete headwalls on both ends. Service pole and anchor at the landside (LS) toe. Concrete headwalls on both ends. (four foot by four foot culvert [HLM 2.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9307, 1974 - Azalene E. Lowe). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 123+55.5)]. FS Date: 10/8/2019 10:14:53 AM						

Photo 1 of 3 : UCIP_FA_2019_55708_82487.jpg



View of LS looking from levee crown

LM Start	2.58	Rating **	M	Issue No.	38 (cont)
LM End	2.58	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_55708_82488.jpg



View of WS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	38 (cont)	
LM End	2.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.747204 °	38.747204 °	
				-121.694440 °	-121.694440 °	
DWR ID	19391					
Comment Code						
Inspector Comment						
DS_ID:19391 FS_ID:55708 EP_NO: 9307 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Slide gate actuator is not accessible without use of equipment. (O.Yakimov - DWR UCIP)04/05/2013 Walkway to actuater slide gate is missing. No method of actuating slide gate. FIELD_STRUCT_DESC: 2 of 2: 48-inch by 48-inch reinforced concrete box drainage culvert through the levee, 23 feet below the crown. Walkway to slide gate on the waterside (WS) end. Concrete headwalls on both ends. Service pole and anchor at the landside (LS) toe. Concrete headwalls on both ends. (four foot by four foot culvert [HLM 2.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9307, 1974 - Azalene E. Lowe). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 123+55.5)]. FS Date: 10/8/2019 10:14:53 AM						

Photo 3 of 3 : UCIP_FA_2019_55708_82486.jpg



Inlet of 48 x 48 inch concrete culvert. View from LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.67	Rating **	M	Issue No.	39	
LM End	2.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.748391 °	38.748391 °	
				-121.694814 °	-121.694814 °	
DWR ID	19365					
Comment Code						
Inspector Comment						
DS_ID:19365 FS_ID:55711 EP_NO: 9301 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainage pipe through the levee, 6.4 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump house mounted on concrete box in irrigation ditch at the landside (LS) toe. (one 18-inch and one 24-inch pipes [HLM 2.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9301, 1974 - Reclamation District No. 730). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 128+00)]. FS Date: 10/8/2019 12:58:01 PM						

LM Start	2.67	Rating **	M	Issue No.	39 (cont)
LM End	2.67	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_55711_82498.jpg



View of LS looking from levee crown

Photo 2 of 3 : UCIP_FA_2019_55711_82499.jpg



View of pipe on WS slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.67	Rating **	M	Issue No.	39 (cont)	
LM End	2.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.748391 °	38.748391 °	
				-121.694814 °	-121.694814 °	
DWR ID	19365					
Comment Code						
Inspector Comment						
DS_ID:19365 FS_ID:55711 EP_NO: 9301 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainage pipe through the levee, 6.4 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump house mounted on concrete box in irrigation ditch at the landside (LS) toe. (one 18-inch and one 24-inch pipes [HLM 2.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9301, 1974 - Reclamation District No. 730). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 128+00)]. FS Date: 10/8/2019 12:58:01 PM						

Photo 3 of 3 : UCIP_FA_2019_55711_82500.jpg



Concrete sump at pumping house

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.67	Rating **	M	Issue No.	40	
LM End	2.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.748404 °	38.748404 °	
				-121.694818 °	-121.694818 °	
DWR ID	19392					
Comment Code						
Inspector Comment						
DS_ID:19392 FS_ID:55712 EP_NO: 9301 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 7.3 feet below the crown. Pump house mounted on concrete box in irrigation ditch at the landside (LS) toe. Siphon breaker in riser on the waterside (WS) slope. (one 24-inch and one 18-inch pipes [HLM 2.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9301, 1974 - Reclamation District No. 730). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 128+00)]. FS Date: 10/8/2019 1:07:27 PM						

LM Start	2.67	Rating **	M	Issue No.	40 (cont)
LM End	2.67	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_55712_82512.jpg



View of levee crown at the crossing

Photo 2 of 3 : UCIP_FA_2019_55712_82514.jpg



Pumphouse and pipe on LS toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.67	Rating **	M	Issue No.	40 (cont)	
LM End	2.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.748404 °	38.748404 °	
				-121.694818 °	-121.694818 °	
DWR ID	19392					
Comment Code						
Inspector Comment						
DS_ID:19392 FS_ID:55712 EP_NO: 9301 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 7.3 feet below the crown. Pump house mounted on concrete box in irrigation ditch at the landside (LS) toe. Siphon breaker in riser on the waterside (WS) slope. (one 24-inch and one 18-inch pipes [HLM 2.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9301, 1974 - Reclamation District No. 730). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 128+00)]. FS Date: 10/8/2019 1:07:27 PM						

Photo 3 of 3 : UCIP_FA_2019_55712_82515.jpg



View of pipe on WS slope

LM Start	2.68	Rating **	M	Issue No.	41
LM End	2.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.748524 °	38.748524 °
				-121.694788 °	-121.694788 °
DWR ID	19383				
Comment Code					
Inspector Comment					
DS_ID:19383 FS_ID:55716 EP_NO: 13164 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/08/2019 Missing gas line markers. (O.Yakimov - DWR UCIP)04/05/2013 Need to contact owner to determine status of crossing and install markers if appropriate. FIELD_STRUCT_DESC: 4-inch coated steel natural gas collection pipe through the levee, 2.8 feet below the crown. Pipe attached to the downstream side of the bridge. (Permit No. 13164, 1981 - Shell Oil Company). Design drawings available in permit. FS Date: 10/8/2019 1:23:53 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.70	Rating **	M	Issue No.	18
LM End	2.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.748837 °	38.748837 °
				-121.694823 °	-121.694823 °
DWR ID	DWR_NA0008_01_f_2015_18				
Comment Code					
DE : Debris					
Inspector Comment					
A portion of the pipe seems to have been replaced and the abandoned pipe is left at the toe of the landward side of the levee.					

Photo 1 of 2 : FA_2019_NA0008_256_18_20190829_00003.jpg



View of the abandoned pipe at the toe of levee on the landward side.
Fall 2015.

LM Start	2.70	Rating **	M	Issue No.	18 (cont)
LM End	2.70	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2019_NA0008_256_18_20190829_00004.jpg



The dark portion on the left pipe seems to have been replaced with a new pipe. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.70	Rating **	M	Issue No.	42	
LM End	2.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.748909 °	38.748909 °	
				-121.694811 °	-121.694811 °	
DWR ID	19394					
Comment Code						
Inspector Comment						
DS_ID:19394 FS_ID:55721 EP_NO: 8752 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Top of concrete C-shaped headwall on LS berm is tilting towards the levee, cracks in concrete observed. Erosion around the headwall off LS levee toe. Although pipes don't seem to be leaning on the headwall, a sloughing may occur if headwall fails. Recommend closer observation of the crossing. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 30-inch asphalt coated steel drainage pipe through the levee, 3 feet below the crown. Siphon breaker on pipe on the waterside (WS) shoulder. Pump on a steel pile structure at the landside (LS) toe. (Permit No. 8752, 1973 - Reclamation District No. 730). Some design drawings available in permit. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 2:05:13 PM						

LM Start	2.70	Rating **	M	Issue No.	42 (cont)
LM End	2.70	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55721_82551.jpg



View of levee crown at the crossing

Photo 2 of 3 : UCIP_FA_2019_55721_82554.jpg



View of WS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.70	Rating **	M	Issue No.	42 (cont)	
LM End	2.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.748909 °	38.748909 °	
				-121.694811 °	-121.694811 °	
DWR ID	19394					
Comment Code						
Inspector Comment						
DS_ID:19394 FS_ID:55721 EP_NO: 8752 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Top of concrete C-shaped headwall on LS berm is tilting towards the levee, cracks in concrete observed. Erosion around the headwall off LS levee toe. Although pipes don't seem to be leaning on the headwall, a sloughing may occur if headwall fails. Recommend closer observation of the crossing. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 30-inch asphalt coated steel drainage pipe through the levee, 3 feet below the crown. Siphon breaker on pipe on the waterside (WS) shoulder. Pump on a steel pile structure at the landside (LS) toe. (Permit No. 8752, 1973 - Reclamation District No. 730). Some design drawings available in permit. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 2:05:13 PM						

Photo 3 of 3 : UCIP_FA_2019_55721_82555.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.71	Rating **	M	Issue No.	43
LM End	2.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.748929°	38.748929°
				-121.694749°	-121.694749°
DWR ID	19395				
Comment Code					
Inspector Comment					
DS_ID:19395 FS_ID:55722 EP_NO: 8752 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Top of concrete C-shaped headwall on LS berm is tilting towards the levee, cracks in concrete observed. Erosion around the headwall off LS levee toe. Although pipes don't seem to be leaning on the headwall, a sloughing may occur if headwall fails. Recommend closer observation of the crossing. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3 feet below the crown. Siphon breaker on pipe on the waterside (WS) shoulder with a pump on a steel pile structure at the landside (LS) toe. Butterfly shutoff valve at the LS toe. (Permit No. 8752, 1973 - Reclamation District No. 730). Some design drawings available. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 2:17:18 PM					

LM Start	2.71	Rating **	M	Issue No.	43 (cont)
LM End	2.71	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55722_82559.jpg



View of LS looking from levee crown

Photo 2 of 3 : UCIP_FA_2019_55722_82563.jpg



View of WS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.71	Rating **	M	Issue No.	43 (cont)	
LM End	2.71	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.748929 °	38.748929 °	
				-121.694749 °	-121.694749 °	
DWR ID	19395					
Comment Code						
Inspector Comment						
DS_ID:19395 FS_ID:55722 EP_NO: 8752 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Top of concrete C-shaped headwall on LS berm is tilting towards the levee, cracks in concrete observed. Erosion around the headwall off LS levee toe. Although pipes don't seem to be leaning on the headwall, a sloughing may occur if headwall fails. Recommend closer observation of the crossing. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3 feet below the crown. Siphon breaker on pipe on the waterside (WS) shoulder with a pump on a steel pile structure at the landside (LS) toe. Butterfly shutoff valve at the LS toe. (Permit No. 8752, 1973 - Reclamation District No. 730). Some design drawings available. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 2:17:18 PM						

Photo 3 of 3 : UCIP_FA_2019_55722_82560.jpg



LS levee slope and pipe

LM Start	3.31	Rating **	M	Issue No.	44
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.757651 °	38.757651 °
				-121.694857 °	-121.694857 °
DWR ID	19382				
Comment Code					
Inspector Comment					
DS_ID:19382					
FS_ID:55724					
EP_NO: 5302					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: 10/08/2019 Crossing not found. Candidate for electromagnetic. (O.Yakimov - DWR UCIP)					
FIELD_STRUCT_DESC: 24-inch welded steel drainage pipe through the levee, 3 feet below the crown. Pump on platform on the waterside (WS) of the levee. Siphon breaker on the WS shoulder, and flap gate on the landside (LS) outlet. (Permit No. 5302, 1966 - E. L. Wallace).					
FS Date: 10/8/2019 2:48:13 PM					

Photo 1 of 3 : UCIP_FA_2019_55724_82564.jpg



View of levee crown at the crossing

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.31	Rating **	M	Issue No.	44 (cont)
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.757651 °	38.757651 °
				-121.694857 °	-121.694857 °
DWR ID	19382				
Comment Code					
Inspector Comment					
DS_ID:19382 FS_ID:55724 EP_NO: 5302 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/08/2019 Crossing not found. Candidate for electromagnetic. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 24-inch welded steel drainage pipe through the levee, 3 feet below the crown. Pump on platform on the waterside (WS) of the levee. Siphon breaker on the WS shoulder, and flap gate on the landside (LS) outlet. (Permit No. 5302, 1966 - E. L. Wallace). FS Date: 10/8/2019 2:48:13 PM					
LM Start	3.31	Rating **	M	Issue No.	44 (cont)
LM End	3.31	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55724_82565.jpg



Erosion around headwall on WS

Photo 3 of 3 : UCIP_FA_2019_55724_82566.jpg



View of WS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.36	Rating **	M	Issue No.	19
LM End	3.44	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.758432 °	38.759332 °
				-121.695158 °	-121.696063 °
DWR ID	DWR_NA0008_01_f_2018_19				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 3.5 R					
Status: Eroding					
2017 Field Notes: Access Issues - Could not observe					
Site History: 2011 - Toe scour and bank slumping.					

No Photos

LM Start	3.50	Rating **	M	Issue No.	20
LM End	3.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.759910 °	38.759910 °
				-121.696920 °	-121.696920 °
DWR ID	DWR_NA0008_01_f_2015_20				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : FA_2019_NA0008_256_20_20190829_00005.jpg



View of erosion on the waterside slope. Spring 2018.

LM Start	3.50	Rating **	M	Issue No.	20 (cont)
LM End	3.50	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_NA0008_256_20_20190829_00006.jpg

View of the erosion on the waterward side of the levee looking upstream.
Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.78	Rating **	M	Issue No.	30
LM End	3.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.762886 °	38.762886 °
				-121.700406 °	-121.700406 °
DWR ID	DWR_NA0008_01_s_2017_30				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is a hole from a fallen tree at the waterside toe.					

Photo 1 of 1 : FA_2019_NA0008_256_30_20190829_00009.jpg



View of hole at the waterside toe. Spring 2019.

LM Start	3.86	Rating **	M	Issue No.	31
LM End	3.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.763751 °	38.763751 °
				-121.701398 °	-121.701398 °
DWR ID	DWR_NA0008_01_s_2018_31				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The erosion appears to be stable. LMA continues to monitor.					

Photo 1 of 2 : FA_2019_NA0008_256_31_20191001_00039.jpg



View of the erosion at the waterside toe. Fall 2019.

LM Start	3.86	Rating **	M	Issue No.	31 (cont)
LM End	3.86	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_NA0008_256_31_20190829_00010.jpg



View of the erosion at the toe of the levee on the waterward side. Spring 2016.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.88	Rating **	M	Issue No.	21
LM End	3.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.764037°	38.764905°
				-121.701434°	-121.702074°
DWR ID	DWR_NA0008_01_f_2018_21				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 3.9 R					
Status: Eroding					
2017 Field Notes: Access Issues - Could not observe					
Site History: 2011 - Toe erosion and erosion pockets from tree					
popouts. More tree popouts are expected due to the eroding toe.					

No Photos

LM Start	4.38	Rating **	M	Issue No.	22
LM End	4.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.771003 °	38.777404 °
				-121.703413 °	-121.707412 °
DWR ID	DWR_NA0008_01_f_2015_22				
Comment Code					
DT : Ditch					
Inspector Comment					
A ditch is at the levee toe on the landward side.					

Photo 1 of 1 : FA_2019_NA0008_256_22_20190829_00007.jpg

View of the ditch on the landward side of the levee looking upstream.
Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	4.89	Rating **	M	Issue No.	45
LM End	4.89	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.777566 °	38.777566 °
				-121.707591 °	-121.707591 °
DWR ID	19367				
Comment Code					
Inspector Comment					
DS_ID:19367 FS_ID:55725 EP_NO: 4443 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Pipe not covered on levee slopes and doesn't have an adequate cover at crown. (O.Yakimov - DWR UCIP)04/05/2013 Pipe does not have adequate cover at crown. FIELD_STRUCT_DESC: 16-inch steel drainage pipe through the levee, 0.5 feet below the crown. Pad constructed over pipe for vehicular crossing. Pump on metal structure on the landside (LS). Flap gate on the waterside (WS) end. Siphon breaker on the pipe on the WS. Slide gate on the LS toe. (Permit No. 4443, 1963 - Reclamation District No. 730). Design drawings available in permit. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 2:52:37 PM					

LM Start	4.89	Rating **	M	Issue No.	45 (cont)
LM End	4.89	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55725_82571.jpg



View of levee crown at the crossing

Photo 2 of 3 : UCIP_FA_2019_55725_82572.jpg



View of WS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	4.89	Rating **	M	Issue No.	45 (cont)	
LM End	4.89	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.777566 °	38.777566 °	
				-121.707591 °	-121.707591 °	
DWR ID	19367					
Comment Code						
Inspector Comment						
DS_ID:19367 FS_ID:55725 EP_NO: 4443 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Pipe not covered on levee slopes and doesn't have an adequate cover at crown. (O.Yakimov - DWR UCIP)04/05/2013 Pipe does not have adequate cover at crown. FIELD_STRUCT_DESC: 16-inch steel drainage pipe through the levee, 0.5 feet below the crown. Pad constructed over pipe for vehicular crossing. Pump on metal structure on the landside (LS). Flap gate on the waterside (WS) end. Siphon breaker on the pipe on the WS. Slide gate on the LS toe. (Permit No. 4443, 1963 - Reclamation District No. 730). Design drawings available in permit. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 2:52:37 PM						

Photo 3 of 3 : UCIP_FA_2019_55725_82573.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	6.00	Rating **	M	Issue No.	46	
LM End	6.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.788921 °	38.788921 °	
				-121.721985 °	-121.721985 °	
DWR ID	19397					
Comment Code						
Inspector Comment						
DS_ID:19397						
FS_ID:55745						
EP_NO: 5276						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 10/08/2019 Pipe is capped under pumping platform.						
(O.Yakimov - DWR UCIP)04/05/2013 Pipe appears abandoned at this time.						
FIELD_STRUCT_DESC: 2 of 2: 20-inch steel irrigation pipe through the levee, 4.9 feet below the crown. Vertical pump unit on pile structure in stream. Siphon breaker on the landside (LS) shoulder in a 16-inch steel riser. Flap gate on the LS end. Pipe discharges into an irrigation ditch on the LS. Steel plate welded over end of pipe at pump structure.						
(Replaced an existing 18-inch pipe at this location under Permit No. 5276, 1966 - Reclamation District No. 730). [Additional Reference(s): DWR Levee Log, 1990].						
FS Date: 10/8/2019 9:26:13 AM						

Photo 1 of 3 : UCIP_FA_2019_55745_82656.jpg



View of WS looking from levee crown

LM Start	6.00	Rating **	M	Issue No.	46 (cont)
LM End	6.00	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55745_82659.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	6.00	Rating **	M	Issue No.	46 (cont)	
LM End	6.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.788921 °	38.788921 °	
				-121.721985 °	-121.721985 °	
DWR ID	19397					
Comment Code						
Inspector Comment						
DS_ID:19397 FS_ID:55745 EP_NO: 5276 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Pipe is capped under pumping platform. (O.Yakimov - DWR UCIP)04/05/2013 Pipe appears abandoned at this time. FIELD_STRUCT_DESC: 2 of 2: 20-inch steel irrigation pipe through the levee, 4.9 feet below the crown. Vertical pump unit on pile structure in stream. Siphon breaker on the landside (LS) shoulder in a 16-inch steel riser. Flap gate on the LS end. Pipe discharges into an irrigation ditch on the LS. Steel plate welded over end of pipe at pump structure. (Replaced an existing 18-inch pipe at this location under Permit No. 5276, 1966 - Reclamation District No. 730). [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 9:26:13 AM						

Photo 3 of 3 : UCIP_FA_2019_55745_82654.jpg



Siphon breaker in damaged 16-inch steel riser on LS shoulder

LM Start	6.06	Rating **	M	Issue No.	7
LM End	6.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.789529 °	38.792433 °
				-121.722814 °	-121.726463 °
DWR ID	DWR_NA0008_01_f_2018_7				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment and fence are on the landside slope of the levee.					

Photo 1 of 2 : FA_2019_NA0008_256_7_20190829_00001.jpg



View of the equipment on the landward side of the levee looking upstream. Fall 2015.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	6.06	Rating **	M	Issue No.	7 (cont)	
LM End	6.34	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.789529 °	38.792433 °	
				-121.722814 °	-121.726463 °	
DWR ID	DWR_NA0008_01_f_2018_7					
Comment Code						
EQ : Equipment						
Inspector Comment						
Equipment and fence are on the landside slope of the levee.						

Photo 2 of 2 : FA_2019_NA0008_256_7_20190829_00002.jpg



A view of the equipment on the levee slope. Spring 2014

LM Start	6.32	Rating **	C	Issue No.	16
LM End	6.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.792213 °	38.792213 °
				-121.726263 °	-121.726263 °
DWR ID	DWR_NA0008_01_s_2019_16				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
A single rodent hole is located on the landside slope. Recommend monitoring for activity.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/01/2019 10/01/2019	Zach Jojola

LM Start	6.32	Rating **	M	Issue No.	47	
LM End	6.32	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.792227°	38.792227°	
				-121.726287°	-121.726287°	
DWR ID	19389					
Comment Code						
Inspector Comment						
DS_ID:19389						
FS_ID:55746						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Not Found						
UCIP Comments: 10/08/2019 Crossing not found (O.Yakimov - DWR UCIP)						
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe partially through the levee, approximately 4 feet below the crown.						
[Additional Reference(s): USACE Sacramento O&M Manual 127, June 1953, (Station 323+00)].						
FS Date: 10/8/2019 9:41:40 AM						

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Knights Landing Ridge Drainage District

Waterway			Bank	Unit Miles
Unit No. 02 Knights Landing Ridge Cut			Left	6.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/4/2019 - 4/4/2019		10/1/2019 - 10/1/2019	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By	Gary Marler RD0108		Gary Marler RD0108	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.33	Rating **	M	Issue No.	20
LM End	0.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.727442 °	38.727442 °
				-121.669741 °	-121.669741 °
DWR ID	DWR_NA0008_02_f_2019_20				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree at the landside toe. The landowner should remove the limbs within the easement.					

Photo 1 of 1 : FA_2019_NA0008_257_20_20191001_00030.jpg



View of the fallen tree at the landside toe. Fall 2019.

LM Start	0.66	Rating **	A/W	Issue No.	19
LM End	0.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.729848 °	38.729848 °
				-121.674897 °	-121.674897 °
DWR ID	DWR_NA0008_02_s_2019_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is slow bank caving on the overbuilt waterside slope. Recommend monitoring.					

No Photos

LM Start	0.69	Rating **	A/W	Issue No.	18
LM End	0.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.730130 °	38.730130 °
				-121.675391 °	-121.675391 °
DWR ID	DWR_NA0008_02_s_2019_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is slow bank caving on the overbuilt waterside slope. Recommend monitoring.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.81	Rating **	U	Issue No.	23	
LM End	0.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.731263 °	38.731263 °	
				-121.677177 °	-121.677177 °	
DWR ID	19369					
Comment Code						
Inspector Comment						
DS_ID:19369 FS_ID:55754 EP_NO: 9322 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Record updated from No Action Needed to Urgent due to issues with levee. Waterward slope of levee berm has been disturbed and not compacted properly. Multiple sinkholes from 1 to 2 feet in diameter found around pumping platform on WS. Signs of runoff observed from the slope of WS berm towards the riverbank. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 4.7 feet below the crown. Pump on pile structure in stream. Air vent on the landside (LS) shoulder. Sand media filters connected to LS end of crossing. Service pole on the waterside (WS) berm. Wide levee section. (24-inch pipe authorized under Automatic Board Order (ABO) as permit No. 9322, 1974 - Davidella H. Hershey Estates). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 44+35)]. FS Date: 10/8/2019 12:41:23 PM						

LM Start	0.81	Rating **	U	Issue No.	23 (cont)
LM End	0.81	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55754_82699.jpg



View of levee crown at the crossing

Photo 2 of 3 : UCIP_FA_2019_55754_82704.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.81	Rating **	U	Issue No.	23 (cont)	
LM End	0.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.731263 °	38.731263 °	
				-121.677177 °	-121.677177 °	
DWR ID	19369					
Comment Code						
Inspector Comment						
DS_ID:19369 FS_ID:55754 EP_NO: 9322 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Record updated from No Action Needed to Urgent due to issues with levee. Waterward slope of levee berm has been disturbed and not compacted properly. Multiple sinkholes from 1 to 2 feet in diameter found around pumping platform on WS. Signs of runoff observed from the slope of WS berm towards the riverbank. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 4.7 feet below the crown. Pump on pile structure in stream. Air vent on the landside (LS) shoulder. Sand media filters connected to LS end of crossing. Service pole on the waterside (WS) berm. Wide levee section. (24-inch pipe authorized under Automatic Board Order (ABO) as permit No. 9322, 1974 - Davidella H. Hershey Estates). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 44+35)]. FS Date: 10/8/2019 12:41:23 PM						

Photo 3 of 3 : UCIP_FA_2019_55754_82700.jpg



View of LS slope at crossing

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.99	Rating **	M	Issue No.	24
LM End	0.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.733120 °	38.733120 °
				-121.679383 °	-121.679383 °
DWR ID	19370				
Comment Code					
Inspector Comment					
DS_ID:19370 FS_ID:55757 EP_NO: 9320 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Crossing looks abandoned (O.Yakimov - DWR UCIP)09/27/2017 Received updated information from DWR levee inspector, Zachary Jojola, confirming that this crossing is still abandoned. Recommend pipe be abandoned properly according to Title 23 requirements. Updated photos have been added to this report. (DWR UCIP - O. Magana)04/09/2013 Appears abandoned as pump is missing from platform. (DWR UCIP - W. Wylie) FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 2.8 feet below the crown. Pipe discharges into a 36-inch concrete standpipe at the levee toe. Pump on steel pile structure in stream with metal walkway. Two service poles on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 9320, 1974 - Ralph W. Pollock). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 52+00) (15-inch pipe listed)]. FS Date: 10/8/2019 1:23:54 PM					

Photo 1 of 3 : UCIP_FA_2019_55757_82719.jpg



View of levee crown at the crossing

LM Start	0.99	Rating **	M	Issue No.	24 (cont)
LM End	0.99	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55757_82720.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	0.99	Rating **	M	Issue No.	24 (cont)	
LM End	0.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.733120 °	38.733120 °	
				-121.679383 °	-121.679383 °	
DWR ID	19370					
Comment Code						
Inspector Comment						
DS_ID:19370 FS_ID:55757 EP_NO: 9320 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Crossing looks abandoned (O.Yakimov - DWR UCIP)09/27/2017 Received updated information from DWR levee inspector, Zachary Jojola, confirming that this crossing is still abandoned. Recommend pipe be abandoned properly according to Title 23 requirements. Updated photos have been added to this report. (DWR UCIP - O. Magana)04/09/2013 Appears abandoned as pump is missing from platform. (DWR UCIP - W. Wylie) FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 2.8 feet below the crown. Pipe discharges into a 36-inch concrete standpipe at the levee toe. Pump on steel pile structure in stream with metal walkway. Two service poles on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 9320, 1974 - Ralph W. Pollock). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 52+00) (15-inch pipe listed)]. FS Date: 10/8/2019 1:23:54 PM						

Photo 3 of 3 : UCIP_FA_2019_55757_82723.jpg



View of WS looking from levee crown

LM Start	1.34	Rating **	M	Issue No.	22
LM End	1.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.737214 °	38.739591 °
				-121.683159 °	-121.685327 °
DWR ID	DWR_NA0008_02_f_2016_22				
Comment Code					
DT : Ditch					
Inspector Comment					
A ditch is located within 10 feet from levee toe on LS.					

Photo 1 of 1 : FA_2019_NA0008_257_22_20190829_00008.jpg



View of a ditch near landside toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	1.89	Rating **	M	Issue No.	25
LM End	1.89	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.743768 °	38.743768 °
				-121.689185 °	-121.689185 °
DWR ID	25471				

Comment Code

Inspector Comment

DS_ID:25471
FS_ID:55758
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/08/2019 Missing permit number for this crossing. (O.Yakimov - DWR UCIP)
09/27/2017 Previous 12-inch pipe (see DSID 19371) was replaced with new 18-inch steel pipe as part of the Knights Landing 2015 Levee Repair Project. No integrity issues were recorded by DWR levee inspector Zachary Jojola. Inspector located the concrete headwall, flap gate, and manual operator for the 12-inch pipe. No as-builts have been received to confirm the details of the new pipe or the abandoned structures allowed to remain from the previous structure. UCIP staff will need to follow-up with LMA to obtain as-built records and authorizing permit. (DWR UCIP - O. Magana)09/01/2016 - pipe was replaced as part of the knights landing 2015 levee repair project. UCIP has requested the As-builts from the LMA and will update the record when those are received. (T. Hatch/UCIP)
FIELD_STRUCT_DESC: 18-inch steel drainage pipe through the levee, at an unknown depth. Pump in a metal pump house on the landside (LS) toe in a drainage canal. Concrete headwall on the waterside (WS) toe. Flap gate on the WS at the headwall. Manhole labeled storm drain at the WS shoulder, ait vent on LS shoulder. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 103+21.8), listed as a 24-inch pipe and a 12-inch pipe].
FS Date: 10/8/2019 1:36:03 PM

LM Start	1.89	Rating **	M	Issue No.	25 (cont)
LM End	1.89	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55758_82732.jpg



Air vent on LS shoulder

Photo 2 of 3 : UCIP_FA_2019_55758_82731.jpg



Closure device in manhole at WS soulder

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	1.89	Rating **	M	Issue No.	25 (cont)	
LM End	1.89	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.743768 °		38.743768 °
				-121.689185 °		-121.689185 °
DWR ID	25471					
Comment Code						
Inspector Comment						
DS_ID:25471 FS_ID:55758 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Missing permit number for this crossing. (O.Yakimov - DWR UCIP) 09/27/2017 Previous 12-inch pipe (see DSID 19371) was replaced with new 18-inch steel pipe as part of the Knights Landing 2015 Levee Repair Project. No integrity issues were recorded by DWR levee inspector Zachary Jojola. Inspector located the concrete headwall, flap gate, and manual operator for the 12-inch pipe. No as-builts have been received to confirm the details of the new pipe or the abandoned structures allowed to remain from the previous structure. UCIP staff will need to follow-up with LMA to obtain as-built records and authorizing permit. (DWR UCIP - O. Magana)09/01/2016 - pipe was replaced as part of the knights landing 2015 levee repair project. UCIP has requested the As-builts from the LMA and will update the record when those are received. (T. Hatch/UCIP) FIELD_STRUCT_DESC: 18-inch steel drainage pipe through the levee, at an unknown depth. Pump in a metal pump house on the landside (LS) toe in a drainage canal. Concrete headwall on the waterside (WS) toe. Flap gate on the WS at the headwall. Manhole labeled storm drain at the WS shoulder, ait vent on LS shoulder. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 103+21.8), listed as a 24-inch pipe and a 12-inch pipe]. FS Date: 10/8/2019 1:36:03 PM						

Photo 3 of 3 : UCIP_FA_2019_55758_82730.jpg



LS levee slope looking towards levee

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	1.90	Rating **	M	Issue No.	26	
LM End	1.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.743775°	38.743775°	
				-121.689190°	-121.689190°	
DWR ID	19399					
Comment Code						
Inspector Comment						
DS_ID:19399 FS_ID:55761 EP_NO: 9320 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Crossing has been modified as part of the Knights Landing 2015 Levee Repair Project. A concrete box with slide gate was constructed on WS shoulder, a concrete pad with electrical wiring installed at LS toe, pipe inlet on LS is modified and revetted. New flap gate at WS end. Need to request as-built drawings. Missing permit for these modifications. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 21 feet below the crown. Slide gate on the waterside (WS) end. Open on the landside (LS) end. LS toe cobble revetted. Service pole on the LS slope. (24-inch pipe [HLM 1.9] authorized under Automatic Board Order (ABO) issued as Permit No. 9320, 1974 - Ralph W. Pollock). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 103+21.8)]. FS Date: 10/8/2019 2:13:30 PM						

LM Start	1.90	Rating **	M	Issue No.	26 (cont)
LM End	1.90	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_55761_82744.jpg



View of levee crown at the crossing

Photo 2 of 3 : UCIP_FA_2019_55761_82749.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	1.90	Rating **	M	Issue No.	26 (cont)	
LM End	1.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.743775 °	38.743775 °	
				-121.689190 °	-121.689190 °	
DWR ID	19399					
Comment Code						
Inspector Comment						
DS_ID:19399 FS_ID:55761 EP_NO: 9320 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Crossing has been modified as part of the Knights Landing 2015 Levee Repair Project. A concrete box with slide gate was constructed on WS shoulder, a concrete pad with electrical wiring installed at LS toe, pipe inlet on LS is modified and revetted. New flap gate at WS end. Need to request as-built drawings. Missing permit for these modifications. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 21 feet below the crown. Slide gate on the waterside (WS) end. Open on the landside (LS) end. LS toe cobble revetted. Service pole on the LS slope. (24-inch pipe [HLM 1.9] authorized under Automatic Board Order (ABO) issued as Permit No. 9320, 1974 - Ralph W. Pollock). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 103+21.8)]. FS Date: 10/8/2019 2:13:30 PM						

Photo 3 of 3 : UCIP_FA_2019_55761_82746.jpg



Concrete pad with electrical wiring at LS levee toe

LM Start	2.26	Rating **	M	Issue No.	27
LM End	2.26	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.748282 °	38.748282 °
				-121.692652 °	-121.692652 °
DWR ID	19388				
Comment Code					
Inspector Comment					
DS_ID:19388 FS_ID:55763 EP_NO: 15517 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 10/08/2019 Marker visible only on LS. (O.Yakimov - DWR UCIP)04/09/2013 Pipe alignment should be marked at levee crossing. FIELD_STRUCT_DESC: 8-inch steel natural gas pipeline through the levee, 50 feet below the crown. (Permit No. 15517, 1991 - Chevron U.S.A., Inc.). Design drawings available in permit. FS Date: 10/8/2019 2:33:02 PM					

Photo 1 of 2 : UCIP_FA_2019_55763_82751.jpg



View of gas line marker on LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.26	Rating **	M	Issue No.	27 (cont)	
LM End	2.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.748282 °	38.748282 °	
				-121.692652 °	-121.692652 °	
DWR ID	19388					
Comment Code						
Inspector Comment						
DS_ID:19388 FS_ID:55763 EP_NO: 15517 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 10/08/2019 Marker visible only on LS. (O.Yakimov - DWR UCIP)04/09/2013 Pipe alignment should be marked at levee crossing. FIELD_STRUCT_DESC: 8-inch steel natural gas pipeline through the levee, 50 feet below the crown. (Permit No. 15517, 1991 - Chevron U.S.A., Inc.). Design drawings available in permit. FS Date: 10/8/2019 2:33:02 PM						

Photo 2 of 2 : UCIP_FA_2019_55763_82752.jpg



Gas line marker

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.28	Rating **	M	Issue No.	28
LM End	2.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.748505°	38.748505°	
			-121.692697°	-121.692697°	
DWR ID	19386				

Comment Code

Inspector Comment

DS_ID:19386
FS_ID:55764
EP_NO: 13164
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 10/08/2019 Crossing marker on levee Unit 02 is missing. Having a marker on County Road 16 shoulder is not enough to find exact crossing location on levee. Crossing has been downgraded to "Non-Urgent" due to reclassification of gas lines. (O.Yakimov - DWR UCIP)09/01/2016 - Markers present on the edges of Road 16. Alignment indicated by markers shows parallel alignment to the levee. Permit indicates pipe crosses levee and therefore should have markers indicating where it crosses the levee. (T. Hatch/UCIP)04/08/2013 - Need to have pipe located and marked properly if still in use. (W. Wylie/UCIP)
FIELD_STRUCT_DESC: 4-inch steel natural gas collection pipe through the levee, 3.2 feet below the crown. Permit indicates that the pipe was installed on the northern shoulder of Road 16 and crosses the Knights Landing Ridge Cut on the northern side of the Road 16 bridge. (Permit No. 13164, 1981 - Shell Oil Company).
FS Date: 10/8/2019 2:37:40 PM

LM Start	2.28	Rating **	M	Issue No.	28 (cont)
LM End	2.28	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2019_55764_82753.jpg



South shoulder of Co Rd 16 with gas line marker installed

Photo 2 of 2 : UCIP_FA_2019_55764_82754.jpg



Gas line marker

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.72	Rating **	A/W	Issue No.	8
LM End	2.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.754899 °	38.757925 °
				-121.692653 °	-121.693048 °
DWR ID	DWR_NA0008_02_f_2018_8				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 3.0 L					
Status: Eroding					
2017 Field Notes: Access Issues - Could not observe					
Site History: 2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Multiple scallops throughout the site and slumping of the toe.					

No Photos

LM Start	2.98	Rating **	M	Issue No.	9
LM End	3.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.758587°	38.760053°
				-121.693359°	-121.694686°
DWR ID	DWR_NA0008_02_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 3.1 L					
Status: Eroding					
2017 Field Notes: Access Issues - Could not observe					
Site History: 2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Slumping of the levee toe.					

Photo 1 of 2 : FA_2019_NA0008_257_9_20190829_00003.jpg



View of the erosion on the waterside slope. Fall 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	2.98	Rating **	M	Issue No.	9 (cont)	
LM End	3.11	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 USACE Erosion Survey			38.758587 °		38.760053 °
				-121.693359 °		-121.694686 °
DWR ID	DWR_NA0008_02_f_2018_9					
Comment Code						
Inspector Comment						
2017 Site ID: KLR 3.1 L						
Status: Eroding						
2017 Field Notes: Access Issues - Could not observe						
Site History: 2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Slumping of the levee toe.						

Photo 2 of 2 : FA_2019_NA0008_257_9_20190829_00004.jpg



View of the opening within the center channel. Fall 2018.

LM Start	3.31	Rating **	A/W	Issue No.	14
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.762301 °	38.762301 °
				-121.697190 °	-121.697190 °
DWR ID	DWR_NA0008_02_f_2018_14				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The primary channel changes course throughout the water year and erodes the slope through an opening in the center barrier. The slope appears to be stable and erosion is not within the prism. The levee is further reinforced by the newly constructed berm on the land side. Recommend monitoring.					

Photo 1 of 2 : FA_2019_NA0008_257_14_20190829_00005.jpg



View of erosion on the waterside slope. Fall 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.31	Rating **	A/W	Issue No.	14 (cont)
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.762301 °	38.762301 °
				-121.697190 °	-121.697190 °
DWR ID	DWR_NA0008_02_f_2018_14				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The primary channel changes course throughout the water year and erodes the slope through an opening in the center barrier. The slope appears to be stable and erosion is not within the prism. The levee is further reinforced by the newly constructed berm on the land side. Recommend monitoring.					

Photo 2 of 2 : FA_2019_NA0008_257_14_20190829_00006.jpg



View of the opening within the main channel, facing upstream. Fall 2018.

LM Start	3.60	Rating **	A/W	Issue No.	10
LM End	3.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.765522 °	38.767336 °
				-121.700608 °	-121.701023 °
DWR ID	DWR_NA0008_02_f_2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 3.7 L					
Status: Eroding					
2017 Field Notes: Access Issues - Could not observe					
Site History: 2011 - The toe has eroded away and there are a few scallops from bank slumping.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.68	Rating **	M	Issue No.	29
LM End	3.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.766573 °	38.766573 °
				-121.700885 °	-121.700885 °
DWR ID	19373				
Comment Code					
Inspector Comment					
DS_ID:19373 FS_ID:55774 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/08/2019 Not found concrete distribution box on WS slope. Unable to locate permit for pipe abandonment. (O.Yakimov - DWR UCIP)04/09/2013 14-inch pipe debris on the WS slope. FIELD_STRUCT_DESC: *ABANDONED* 18-inch reinforced concrete drainage pipe through the levee, 6.5 feet below the crown. No gates or valves. 5-foot by 5-foot concrete distribution box on the waterside (WS) slope (Russell). [Additional Reference(s): DWR Levee Log, 1966]. FS Date: 10/8/2019 3:37:43 PM					

Photo 1 of 3 : UCIP_FA_2019_55774_82795.jpg



Signs of soil disturbed on WS levee slope

LM Start	3.68	Rating **	M	Issue No.	29 (cont)
LM End	3.68	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55774_82796.jpg



View of WS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.68	Rating **	M	Issue No.	29 (cont)	
LM End	3.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.766573 °	38.766573 °	
				-121.700885 °	-121.700885 °	
DWR ID	19373					
Comment Code						
Inspector Comment						
DS_ID:19373 FS_ID:55774 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/08/2019 Not found concrete distribution box on WS slope. Unable to locate permit for pipe abandonment. (O.Yakimov - DWR UCIP)04/09/2013 14-inch pipe debris on the WS slope. FIELD_STRUCT_DESC: *ABANDONED* 18-inch reinforced concrete drainage pipe through the levee, 6.5 feet below the crown. No gates or valves. 5-foot by 5-foot concrete distribution box on the waterside (WS) slope (Russell). [Additional Reference(s): DWR Levee Log, 1966]. FS Date: 10/8/2019 3:37:43 PM						

Photo 3 of 3 : UCIP_FA_2019_55774_82797.jpg



View of LS slope looking towards levee

LM Start	3.93	Rating **	A/W	Issue No.	30
LM End	3.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.770308 °	38.770308 °
				-121.701236 °	-121.701236 °
DWR ID	25571				
Comment Code					
Inspector Comment					
DS_ID:25571					
FS_ID:55749					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP)					
FIELD_STRUCT_DESC: 16-inch steel discharge pipe through the levee, 3-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker and positive closure device butterfly valve with handwheel operator on the pipe on the waterward side. Pipe replaces a section of pipe through the levee butt welded to the original pipe approximately 35-feet from levee centerline on both levee slopes. Service pole on pump house (Permit No. 9317-1, applicant - RD730, issued 07/10/2014)					
FS Date: 10/8/2019 12:32:09 PM					

Photo 1 of 3 : UCIP_FA_2019_55749_82670.jpg



View of levee crown at the crossing

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	30 (cont)	
LM End	3.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.770308 °	38.770308 °	
				-121.701236 °	-121.701236 °	
DWR ID	25571					
Comment Code						
Inspector Comment						
DS_ID:25571						
FS_ID:55749						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP)						
FIELD_STRUCT_DESC: 16-inch steel discharge pipe through the levee, 3-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker and positive closure device butterfly valve with handwheel operator on the pipe on the waterward side. Pipe replaces a section of pipe through the levee butt welded to the original pipe approximately 35-feet from levee centerline on both levee slopes. Service pole on pump house (Permit No. 9317-1, applicant - RD730, issued 07/10/2014)						
FS Date: 10/8/2019 12:32:09 PM						

LM Start	3.93	Rating **	A/W	Issue No.	30 (cont)
LM End	3.93	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_55749_82671.jpg



Siphon breaker and positive closure device on WS shoulder

Photo 3 of 3 : UCIP_FA_2019_55749_82672.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	31
LM End	3.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.770327°	38.770327°
				-121.701245°	-121.701245°
DWR ID	25572				

Comment Code

Inspector Comment

DS_ID:25572
FS_ID:54351
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch steel discharge pipe through the levee, 6.5-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker and positive closure device butterfly valve with handwheel operator on the pipe on the waterward side. Pipe replaces a section of pipe through the levee butt welded to the original pipe approximately 37-feet from levee centerline on both levee slopes. Service pole on pump house. (Permit No. 9317-1, applicant - RD730, issued 07/10/2014 gives authorization of emergency removal and replacement of the pipe in September 2012.)
FS Date: 10/8/2019

LM Start	3.93	Rating **	A/W	Issue No.	31 (cont)
LM End	3.93	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_54351_82677.jpg



View of levee crown at the crossing

Photo 2 of 3 : UCIP_FA_2019_54351_82678.jpg



Siphon breaker and positive closure device on WS shoulder

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	31 (cont)	
LM End	3.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.770327°	38.770327°	
				-121.701245°	-121.701245°	
DWR ID	25572					
Comment Code						
Inspector Comment						
DS_ID:25572 FS_ID:54351 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel discharge pipe through the levee, 6.5-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker and positive closure device butterfly valve with handwheel operator on the pipe on the waterward side. Pipe replaces a section of pipe through the levee butt welded to the original pipe approximately 37-feet from levee centerline on both levee slopes. Service pole on pump house. (Permit No. 9317-1, applicant - RD730, issued 07/10/2014 gives authorization of emergency removal and replacement of the pipe in September 2012.) FS Date: 10/8/2019						

Photo 3 of 3 : UCIP_FA_2019_54351_82679.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	32
LM End	3.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.770317 °	38.770317 °
				-121.701281 °	-121.701281 °
DWR ID	19374				
Comment Code					
Inspector Comment					
DS_ID:19374 FS_ID:11293 EP_NO: 9317 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 01/14/2019 Pipe has been replaved with a 16-inch pipe under permit 9317-1; new DS-ID 25571. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED* 1 of 2: 16-inch steel discharge pipe through the levee, 3 feet below the crown. Pump house on pile structure in drainage ditch on the landside (LS). Siphon breaker on the pipe on the waterside (WS). Service pole at the pump house. (16-inch pipe [HLM 3.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9317, 1974 - Reclamation District No. 819). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 211+05) (15-inch pipe listed)]. FS Date: 4/9/2013					

LM Start	3.93	Rating **	A/W	Issue No.	32 (cont)
LM End	3.93	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_11293_18675.jpg



Pump on LS toe.

Photo 2 of 3 : UCIP_FA_2019_11293_18674.jpg



Pump and pipes on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	32 (cont)	
LM End	3.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.770317 °	38.770317 °	
				-121.701281 °	-121.701281 °	
DWR ID	19374					
Comment Code						
Inspector Comment						
DS_ID:19374 FS_ID:11293 EP_NO: 9317 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 01/14/2019 Pipe has been replaved with a 16-inch pipe under permit 9317-1; new DS-ID 25571. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED* 1 of 2: 16-inch steel discharge pipe through the levee, 3 feet below the crown. Pump house on pile structure in drainage ditch on the landside (LS). Siphon breaker on the pipe on the waterside (WS). Service pole at the pump house. (16-inch pipe [HLM 3.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9317, 1974 - Reclamation District No. 819). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 211+05) (15-inch pipe listed)]. FS Date: 4/9/2013						

Photo 3 of 3 : UCIP_FA_2019_11293_18673.jpg



16-inch pipe with siphon breaker on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.94	Rating **	A/W	Issue No.	33
LM End	3.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.770335°	38.770335°
				-121.701286°	-121.701286°
DWR ID	19401				
Comment Code					
Inspector Comment					
DS_ID:19401 FS_ID:11291 EP_NO: 9317 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 01/14/2019 Pipe was removed replaced with a new 24-inch pipe through the levee. Permit 9317-1 issues authorization of emergency removal and replacement of the pipe in September 2012. New DS-ID 25572. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED* 2 of 2: 24-inch steel discharge pipe through the levee, 9 feet below the crown. Pump house on pile structure in drainage ditch on the landside (LS). Siphon breaker on the pipe on the waterside (WS) with a butterfly shutoff valve. Service pole at the pump house. (Permit No. 9317, 1974 - Reclamation District No. 819). Pipe replaced in 2012. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 210+99)]. FS Date: 4/9/2013					

Photo 1 of 3 : UCIP_FA_2019_11291_18669.jpg



Pumphouse at LS toe.

LM Start	3.94	Rating **	A/W	Issue No.	33 (cont)
LM End	3.94	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_11291_18668.jpg



Pipe in grass on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	3.94	Rating **	A/W	Issue No.	33 (cont)	
LM End	3.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.770335 °	38.770335 °	
				-121.701286 °	-121.701286 °	
DWR ID	19401					
Comment Code						
Inspector Comment						
DS_ID:19401 FS_ID:11291 EP_NO: 9317 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 01/14/2019 Pipe was removed replaced with a new 24-inch pipe through the levee. Permit 9317-1 issues authorization of emergency removal and replacement of the pipe in September 2012. New DS-ID 25572. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED* 2 of 2: 24-inch steel discharge pipe through the levee, 9 feet below the crown. Pump house on pile structure in drainage ditch on the landside (LS). Siphon breaker on the pipe on the waterside (WS) with a butterfly shutoff valve. Service pole at the pump house. (Permit No. 9317, 1974 - Reclamation District No. 819). Pipe replaced in 2012. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 210+99)]. FS Date: 4/9/2013						

Photo 3 of 3 : UCIP_FA_2019_11291_18667.jpg



Siphon breaker and butterfly valve on WS shoulder.

LM Start	4.30	Rating **	A/W	Issue No.	11
LM End	4.55	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.775271 °	38.778115 °
				-121.703685 °	-121.706195 °
DWR ID	DWR_NA0008_02_f_2018_11				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 4.7 L					
Status: Eroding					
2017 Field Notes: Access Issues - Could not observe					
Site History: 2011 - This site is the downstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	5.02	Rating **	M	Issue No.	34
LM End	5.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.783196 °	38.783196 °
				-121.712043 °	-121.712043 °
DWR ID	19390				
Comment Code					
Inspector Comment					
DS_ID:19390 FS_ID:55776 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/08/2019 Crossing not found (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, at an unknown depth. Pump on the waterside (WS), and concrete diversion box on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 127, June 1953, (Station 271+79)]. FS Date: 10/8/2019 3:46:08 PM					

No Photos

LM Start	5.36	Rating **	A/W	Issue No.	12
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.786566 °	38.792395 °
				-121.716724 °	-121.724091 °
DWR ID	DWR_NA0008_02_f_2018_12				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 5.8 L					
Status: Eroding					
2017 Field Notes: Hummocky levee, with multiple slump failures and tree popouts.					
Site History: 2011 - This site is the upstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	5.55	Rating **	M	Issue No.	35	
LM End	5.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.788662 °	38.788662 °	
				-121.718997 °	-121.718997 °	
DWR ID	19375					
Comment Code						
Inspector Comment						
DS_ID:19375 FS_ID:55777 EP_NO: 3671 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Crossing looks abandoned (O.Yakimov - DWR UCIP)04/09/2013 Electrical panel missing parts. Siphon breaker missing from pipe on LS. Pipe heavily corroded at outlet with holes present. Appears abandoned-should be abandoned properly. FIELD_STRUCT_DESC: 20-inch coated steel irrigation pipe through the levee, 5.5 feet below the crown. Siphon breaker in a steel pipe riser on the landside (LS) slope. Metal cutoff wall. Service pole on the waterside (WS) slope. (Replaced 20-inch pipe at same location in 1961 under Permit No. 3671, 1961 - Mary Anna Richardson). [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019						

LM Start	5.55	Rating **	M	Issue No.	35 (cont)
LM End	5.55	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55777_82798.jpg



View of levee crown at the crossing

Photo 2 of 3 : UCIP_FA_2019_55777_82799.jpg



View of WS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	5.55	Rating **	M	Issue No.	35 (cont)	
LM End	5.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.788662 °	38.788662 °	
				-121.718997 °	-121.718997 °	
DWR ID	19375					
Comment Code						
Inspector Comment						
DS_ID:19375 FS_ID:55777 EP_NO: 3671 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Crossing looks abandoned (O.Yakimov - DWR UCIP)04/09/2013 Electrical panel missing parts. Siphon breaker missing from pipe on LS. Pipe heavily corroded at outlet with holes present. Appears abandoned-should be abandoned properly. FIELD_STRUCT_DESC: 20-inch coated steel irrigation pipe through the levee, 5.5 feet below the crown. Siphon breaker in a steel pipe riser on the landside (LS) slope. Metal cutoff wall. Service pole on the waterside (WS) slope. (Replaced 20-inch pipe at same location in 1961 under Permit No. 3671, 1961 - Mary Anna Richardson). [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019						

Photo 3 of 3 : UCIP_FA_2019_55777_82801.jpg



View of WS looking from levee crown

LM Start	5.76	Rating **	M	Issue No.	36
LM End	5.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.790834 °	38.790834 °
				-121.721761 °	-121.721761 °
DWR ID	19376				
Comment Code					
Inspector Comment					
DS_ID:19376 FS_ID:55779 EP_NO: 12738 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Crossing looks abandoned (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 10-inch coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank, and siphon breaker on the WS slope. Electrical service line parallel to pipe. Electrical service line and pole at the landside (LS) toe. (Permit No. 12738-D, 1999 - Donald R. Newman [permit not found in database]). Design drawings available in permit. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 3:57:22 PM					

Photo 1 of 3 : UCIP_FA_2019_55779_82815.jpg



View of LS looking from levee crown

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	5.76	Rating **	M	Issue No.	36 (cont)	
LM End	5.76	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.790834 °	38.790834 °	
				-121.721761 °	-121.721761 °	
DWR ID	19376					
Comment Code						
Inspector Comment						
DS_ID:19376 FS_ID:55779 EP_NO: 12738 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Crossing looks abandoned (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 10-inch coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank, and siphon breaker on the WS slope. Electrical service line parallel to pipe. Electrical service line and pole at the landside (LS) toe. (Permit No. 12738-D, 1999 - Donald R. Newman [permit not found in database]). Design drawings available in permit. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 3:57:22 PM						

Photo 2 of 3 : UCIP_FA_2019_55779_82816.jpg



View of WS looking from levee crown

LM Start	5.76	Rating **	M	Issue No.	36 (cont)
LM End	5.76	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_55779_82814.jpg



Abandoned pump on WS slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	5.78	Rating **	C	Issue No.	17
LM End	5.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.791059 °	38.791059 °
				-121.722060 °	-121.722060 °
DWR ID	DWR_NA0008_02_s_2019_17				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
There are tire ruts on the waterside slope. LMA will extend pipe fence to prevent traffic from driving on the slope.					

No Photos

LM Start	5.94	Rating **	M	Issue No.	16
LM End	5.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.792702 °	38.792702 °
				-121.724089 °	-121.724089 °
DWR ID	DWR_NA0008_02_f_2019_16				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile on the waterside slope.					

No Photos

LM Start	5.94	Rating **	U	Issue No.	1
LM End	5.94	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.792735 °	38.792735 °
				-121.724092 °	-121.724092 °
DWR ID	DWR_NA0008_02_s_2012_1				
Comment Code					
FE : Fence					
Inspector Comment					
A fence blocks access to NW part of the levee. Strawberries are being grown on the crown and landside slope. Beehives are on the crown.					

Photo 1 of 2 : FA_2019_NA0008_257_1_20190829_00001.jpg



View of the fence on the crown. Fall 2017.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/01/2019 10/01/2019	Zach Jojola

LM Start	5.94	Rating **	U	Issue No.	1 (cont)	
LM End	5.94	Issue Type +	En	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.792735 °		38.792735 °
				-121.724092 °		-121.724092 °
DWR ID	DWR_NA0008_02_s_2012_1					
Comment Code						
FE : Fence						
Inspector Comment						
A fence blocks access to NW part of the levee. Strawberries are being grown on the crown and landside slope. Beehives are on the crown.						

Photo 2 of 2 : FA_2019_NA0008_257_1_20190829_00002.jpg



View of the fence on the crown of the levee looking upstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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